

CLAIMS

1. Sliding electrical contact part comprising a base containing carbon, copper, zinc and iron, characterised in that it is multi-layer, with at least one layer composed of a material with a low electrical resistivity and at least one layer composed of a material with a higher electrical resistivity, the material composing the layer with a low electrical resistivity containing zinc and iron based particles, whose size is less than 500  $\mu\text{m}$ .  
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- 10 2. Contact part of claim 1, characterised in that the base containing carbon represents at least 20 weight-% of the contact part.
- 15 3. Contact part of any of claims 1 or 2, characterised in that the base containing carbon contains at least 60 weight-% of graphite.
- 20 4. Contact part of any of claims 1 to 3, characterised in that it contains between 1 and 15 weight-% of iron based particles.
- 25 5. Contact part of any of claims 1 to 3, characterised in that it contains between 3 and 10 weight-% of iron based particles.
6. Contact part of any of claims 1 to 5, characterised in that the iron based particles are of a size of between 50  $\mu\text{m}$  and 200  $\mu\text{m}$ .

7. Contact part of any of claims 1 to 6, characterised in that the iron based particles comprise more than 80% of the weight in iron.

5 8. Contact part of any of claims 1 to 7, characterised in that it comprises between 0.5 and 20 weight-% of zinc.

9. Contact part of any of claims 1 to 7, characterised in that it comprises between 1 and 10 weight-% of zinc.

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10. Contact part of any of claims 1 to 9, characterised in that it further comprises at least one lubricant.

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11. Contact part of any of claims 1 to 10, characterised in that it further comprises at least one polishing product.

12. Contact part of claim 11, characterised in that the polishing product is chosen among the carbides and cokes.

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13. Electrical brush characterised in that it comprises at least one contact part of any of claims 1 to 12.

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14. Electrical brush of claim 13, characterised in that it is selected among the electrical motor brushes and the automobile starter motor brushes.

15. Automobile starter motor, characterised in that it comprises at least one electrical brush of claim 13.

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16. Electrical motor, characterised in that it comprises at least one electrical brush of claim 13.